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What is claimed is:

1. An electronic apparatus comprising:

a display section;

an input section having a plurality of keys;

a backlighting section for backlighting the display

5 section and/or the input section;

a mode detecting section for detecting a currently set operation mode that is one of predetermined operation modes when performing a function; and

a backlighting control section for controlling

10 brightness of the backlighting section depending on the currently set operation mode.

2. The electronic apparatus according to claim 1, wherein

the predetermined operation modes include a data input mode and a data display mode, wherein the backlighting control section

15 reduces the brightness of the backlighting section when the data input mode has been set.

3. The electronic apparatus according to claim 1, further comprising:

a mobile telephone section performing a mobile

20 telephone function.

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4. The electronic apparatus according to claim 3, wherein the predetermined operation modes include a data input mode, a data display mode and a communication status display mode.

5. The electronic apparatus according to claim 3, wherein the mobile telephone section has a plurality of functions including a voice communication function, a mailing function, a short-messaging function, a phone directory function, a scheduling function, and a game function.

6. The electronic apparatus according to claim 4, wherein the backlighting control section reduces the brightness of the backlighting section when the data input mode has been set.

7. The electronic apparatus according to claim 1, further comprising:

an information processing section on which one of a plurality of programs runs to generate a corresponding function.

8. The electronic apparatus according to claim 7, wherein the predetermined operation modes include a text mode, a graphic mode, a display mode, a data input modes, and a data display mode, which are operation modes in a function that is one of previously installed functions and functions to be generated by a plurality of application programs.

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9. The electronic apparatus according to claim 8, wherein the backlighting control section reduces the brightness of the backlighting section when the data input mode has been set.

10. The electronic apparatus according to claim 7, wherein  
5 the plurality of programs include a brightness designation program, wherein the backlighting control section controls brightness of the backlighting section depending on a designated brightness level obtained by running the brightness designation program on the information processing section.

10 11. The electronic apparatus according to claim 1, further comprising:

a brightness-change selector for selecting one of a change mode and a no-change mode in brightness depending on a user's instruction inputted through the input section,

15 wherein the backlighting control section changes the brightness of the backlighting section depending on the currently set operation mode when the change mode is selected and does not change the brightness of the backlighting section when the no-change mode is selected.

20 12. The electronic apparatus according to claim 1, wherein the backlighting control section comprises:

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a brightness determining section for determining brightness of the backlighting depending on a currently set operation mode to produce a brightness determination signal; and

5 a brightness control section for controlling the brightness of the backlighting depending on the brightness determination signal.

13. The electronic apparatus according to claim 12, wherein

10 the brightness determining section determines brightness of the backlighting as one of a plurality of brightness levels depending on the currently set operation mode, and the brightness control section controls the brightness of the backlighting depending on a determined brightness level.

15 14. The electronic apparatus according to claim 13, wherein the brightness control section comprises:

20 a plurality of resistor circuits connected to each of a plurality of light-emitting elements provided in the backlighting section, the resistor circuits having different resistance values corresponding to the plurality of brightness levels, respectively; and

a selector for selecting one of the resistor circuits depending on the determined brightness level to adjust an amount

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of current flowing through each of the light-emitting elements in the backlighting section.

15. The electronic apparatus according to claim 13, wherein the brightness control section comprises:

5 a) a chopper circuit connecting a power supply to the backlighting section, for adjust an amount of current flowing through each of the light-emitting elements in the backlighting section depending on the determined brightness level.

10 16. In an electronic apparatus having a display section, an input section having a plurality of keys, and a backlighting section for backlighting the display section and/or the input section, a method for controlling brightness of the backlighting section, comprising the steps of:

15 a) detecting a currently set operation mode that is one of predetermined operation modes when performing a function; and

b) controlling brightness of the backlighting section depending on the currently set operation mode.

20 17. The method according to claim 16, wherein the predetermined operation modes include a data input mode and a data display mode.

wherein, in the step (b), when the data input mode has been set, the brightness of the backlighting section is reduced.

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18. The method according to claim 16, further comprising the step of:

c) selecting one of a change mode and a no-change mode in brightness depending on a user's instruction inputted through the input section,

wherein, in the step (b), the brightness of the backlighting section is changed depending on the currently set operation mode when the change mode is selected and is not changed the brightness of the backlighting section when the no-change mode is selected.

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